Amendments to the Claims

The following listing of claims replaces all prior versions and listings of claims in the present application:

1. (Currently Amended) A wind power generation device comprising:

a substantially cylindrical duct;

an impeller having a plurality of blades protruding outward, said impeller being rotatable around a duct axis; and

a nacelle that constitutes a streamlined pencil body together with said impeller and houses a generator that uses a torque of said impeller,

wherein said duct has a side wall with a wing-shaped cross section, ~~[said side wall having no holes therein,]~~ so as to be able to produce a reduced pressure area at a rear of said duct and prevent generation of swirl at the rear of said duct,

wherein said pencil body is provided such that a forward end thereof is disposed inside of said duct and a rear end thereof protrudes outwardly from a rear end of said duct, so as to be close to a tip of the reduced pressure area produced at the rear of said duct, ~~[and]~~

wherein blades of said impeller are provided in a maximum wind speed area in said duct,

wherein a chord of said wing-shaped cross section of said side wall of said duct is inclined at a predetermined angle to the duct axis, and wherein a protruding length of the rear end of

said pencil body from the rear of said duct is adjusted according to a position of the tip of said reduced pressure area, which changes depending on said predetermined angle, and

wherein said predetermined angle is a positive angle such that a leading edge of said chord at the front end of said duct is separated a greater distance from said duct axis than a trailing edge of said chord at the rear end of said duct.

2. (Canceled)

3. (Currently Amended) The wind power generation device according to ~~[claim 2]~~ claim 1, wherein said predetermined angle is 2° to 12°, and the protruding length of said pencil body from the rear of said duct is 0.1 to 0.4 times a length of said duct.

4. (Previously Presented) The wind power generation device according to claim 1, wherein said blades of said impeller are provided within a range of 0.07 times the length of said duct in a forward direction, and 0.18 times the length of said duct in a rearward direction, with respect to a minimum inner diameter portion of said duct.

5. (Canceled)

6. (Previously Presented) The wind power generation device according to claim 3, wherein said blades of said impeller are provided within a range of 0.07 times the length of said duct

in a forward direction, and 0.18 times the length of said duct in a rearward direction with respect to a minimum inner diameter portion of said duct.

7. (Canceled)

8. (New) A wind power generation device comprising:

a substantially cylindrical duct;

an impeller having a plurality of blades protruding outward, said impeller being rotatable around a duct axis; and

a nacelle that constitutes a streamlined pencil body together with said impeller and houses a generator that uses a torque of said impeller,

wherein said duct has a side wall with a wing-shaped cross section, so as to be able to produce a reduced pressure area at a rear of said duct and prevent generation of swirl at the rear of said duct,

wherein said pencil body is provided such that a forward end thereof is disposed inside of said duct and a rear end thereof protrudes outwardly from a rear end of said duct, so as to be close to a tip of the reduced pressure area produced at the rear of said duct,

wherein blades of said impeller are provided in a maximum wind speed area in said duct, and

wherein said blades of said impeller are provided within a range of 0.07 times the length of said duct in a forward direction, and 0.18 times the length of said duct in a rearward

direction, with respect to a minimum inner diameter portion of said duct.

9. (New) The wind power generation device according to claim 8, wherein a chord of said wing-shaped cross section of said side wall of said duct is inclined at a predetermined angle to the duct axis, and wherein a protruding length of the rear end of said pencil body from the rear of said duct is adjusted according to a position of the tip of said reduced pressure area, which changes depending on said predetermined angle.

10. (New) The wind power generation device according to claim 9, wherein said predetermined angle is 2° to 12°, and the protruding length of said pencil body from the rear of said duct is 0.1 to 0.4 times a length of said duct.

11. (New) The wind power generation device according to claim 9, wherein said predetermined angle is a positive angle such that a leading edge of said chord at the front end of said duct is separated a greater distance from said duct axis than a trailing edge of said chord at the rear end of said duct.